

**ARIZONA GAME AND FISH DEPARTMENT
HERITAGE DATA MANAGEMENT SYSTEM**

Plant Abstract

Element Code: PDAST3M530

Data Sensitivity: No

CLASSIFICATION, NOMENCLATURE, DESCRIPTION, RANGE

NAME: *Erigeron sivinskii* Nesom

COMMON NAME: Sivinski's fleabane; Sivinsk's erigeron.

SYNONYMS:

FAMILY: Asteraceae

AUTHOR, PLACE OF PUBLICATION: G.L. Nesom, Phytologia 71(5): 416. 1991 [1992].

TYPE LOCALITY: USA: New Mexico, McKinley Co.

TYPE SPECIMEN: HT: UNM-81795. R.C. Sivinski 1687 and K. Lightfoot. IT: TEX.

TAXONOMIC UNIQUENESS: The species *sivinskii* is 1 of 171 in the genus *Erigeron*.

DESCRIPTION: Perennial herb arising from a thick taproot with numerous short, caudex branches; stems erect, unbranched, green, 5-8 cm (2-3 in) tall, sparsely short strigose with white, stiff, closely appressed trichomes. Narrow green leaves, 9-23 mm x 0.5-0.8 mm, form basal clusters that also continues up the stem, erect to ascending. Heads solitary, terminal, involucre cup-shaped, 10-14 mm wide. Ray flowers 21-33, white with a lavender mid stripe, drying pinkish; corollas 7-10 mm long. Phyllaries green, thin, and herbaceous, in 2-3 subequal series, 5-7 mm long. Achenes 2(-3) nerved, narrowly oblong, 2.8-3.1 mm long, the faces glabrous, the margins sparsely ciliate. (Falk and Jenkins et al. 2001; Roth 2001, revised 2005).

AIDS TO IDENTIFICATION: *Erigeron sivinskii* is similar to *E. consimilis* (fern-leaf fleabane), however, the stems, leaves, and phyllaries of *E. consimilis* are gray green; its stems are scapose, and its phyllaries are thickened along the margins (Falk and Jenkins et al., 2001). *E. bistiensis* (Bisti fleabane) and *E. pulcherrimus* (basin fleabane) have densely strigose-sericeous achenes (Roth 2001, revised 2005).

ILLUSTRATIONS: B&W drawing (Lange 1995, in Falk and Jenkins et al. 2001, and in

<http://nmrareplants.unm.edu/drawings/erisiv.htm>)

Color photos of plant and habitat (Daniela Roth/NNHP in ARPC 2001)

Color photos of plant and habitat (P. Tonne in

<http://nmrareplants.unm.edu/photoimages/collage/erisiv.htm>)

Color photos of plant and habitat (R. Sivinski in

<http://nmrareplants.unm.edu/photoimages/collage/erisiv.htm>)

Color photo (Robert Sivinski 2005, in CalPhotos)

http://elib.cs.berkeley.edu/cgi/img_query?)

TOTAL RANGE: Narrow endemic to an area of about 104 square km in McKinley County, New Mexico and adjacent Apache Co., Arizona.

RANGE WITHIN ARIZONA: Carrizo and Chuska mountains, NW base of Lukachukai Mountains, and Red Valley, Apache County.

SPECIES BIOLOGY AND POPULATION TRENDS

GROWTH FORM: Perennial forb/herb.

PHENOLOGY: Flowers from late May through June. Positive identification is only possible during the flowering/fruiting time, however suitable habitat can be identified year-round.

BIOLOGY:

HABITAT: Steep, barren, shale slopes of the Chinle Formation, in pinyon-juniper woodland and Great Basin Desert Scrub communities (Falk and Jenkins et al. 2001; Roth 2001, revised 2005). NatureServe (2002) reports plants occurring in "Pinyon-juniper woodland on selenium bearing soils in Chinle Shale outcrops at 2225-2440 m elevation."

ELEVATION: 5,800 - 7,865 ft (1769-2399 m). NatureServe (2002) reports elevation range of 7,295 – 8,000 ft (2225-2440 m). Roth (2001) reports "known populations occur at 6,100-7,400 ft elevation," however, recent records (2000 and 2003) occur at 2399 and 2218 meters respectively (GBIF accessed 10/11/2005).

EXPOSURE:

SUBSTRATE: Restricted to Chinle Shale, on selenium bearing soils.

PLANT COMMUNITY: Great Basin Desert Scrub and pinyon-juniper woodland communities.

POPULATION HISTORY AND TRENDS: Locally abundant but restricted to Chinle Shale.

SPECIES PROTECTION AND CONSERVATION

ENDANGERED SPECIES ACT STATUS:

None

STATE STATUS:

None

OTHER STATUS:

Group 4 (NNDFW, NESL 2005)

[Group 4 (NNFWD, NESL 2000)]

MANAGEMENT FACTORS: A 200 ft buffer zone is recommended to avoid disturbance; may be more or less, depending on slope, size and nature of the project (Roth 2001, revised 2005).

PROTECTIVE MEASURES TAKEN:

SUGGESTED PROJECTS:

LAND MANAGEMENT/OWNERSHIP: BIA – Navajo Nation.

SOURCES OF FURTHER INFORMATION

REFERENCES:

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MAJOR KNOWLEDGEABLE INDIVIDUALS:**ADDITIONAL INFORMATION:**

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